[LC 0413] **APRIL 2013** **Sub. Code: 1203**

M.Sc BIOCHEMISTRY DEGREE EXAMINATION

Candidates admitted from 2008-2009 batch

PAPER III – MOLECULAR BIOLOGY, CLINICAL BIOCHEMISTRY, FUNCTION TESTS, ENDOCRINILOGY, IMMUNOLOGY, RECENT ADVANCES IN BIOCHEMISTRY

Q.P. Code : 281203

Time : 3 hours **Maximum : 100 marks**

I. Elaborate on: **(2x20=40)**

1. How is uric acid produced in the body? Add a note on disorders associated with it.
2. Describe in detail protein synthesis and the various post-translational modifications of proteins.

II. Write notes on : **(10X6=60)**

1. Describe the various stages of cell cycle with a note on its regulation.
2. Define mutation. Classify & describe the various types with examples.
3. Describe the types of DNA damage & repair mechanism.
4. Describe the mechanism of action of Type I hormones.
5. What are the various diagnostic & prognostic tests to be performed in a diabetic patient.
6. How is calcium homeostasis maintained in our body?
7. Describe in detail the structure , types and functions of Immunoglobulins.
8. CSF analysis and its application.
9. Estimation of Gamma Glutamyl Transferase(GGT).
10. Prenatal diagnosis of inborn errors of metabolism.

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